

WHAT IS CLAIMED IS:

1. A mucosa excising device using an endoscope comprising:

5 a substantially cylindrical cap having a circular end portion including a holding mechanism which holds an end portion of a snare wire in a loop form; and

an attachment portion which attaches the cap to an end portion of an endoscope,

10 wherein the holding mechanism has a plurality of engagement portions which are provided in the vicinity of an end edge of the cap and distanced from each other in a circumferential direction, and each engagement portion has an engagement piece and a corresponding portion which hold the snare wire 22 therebetween.

15 2. The mucosa excising device using an endoscope according to claim 1, wherein the engagement piece and the corresponding portion elastically hold the snare wire therebetween.

20 3. The mucosa excising device using an endoscope according to claim 1, wherein the cap has a cylindrical wall having an end portion constituting the circular end portion and an inner flange provided so as to inwardly protrude from the end portion of the wall, and each of the engagement pieces is formed so as to be  
25 sectioned from the corresponding portion by a pair of vertical notches which are distanced at the circular end portion in the circumferential direction and formed

at an angle with the circumferential direction.

4. The mucosa excising device using an endoscope according to claim 3, wherein each pair of vertical notches are formed so as to extend from the end to  
5 the base end of the circular end portion.

5. The mucosa excising device using an endoscope according to claim 3, wherein the inner flange has a plurality of lateral notches extending in the circumferential direction, and each pair of vertical  
10 notches extend toward the cylindrical wall from both ends of each lateral notch.

6. The mucosa excising device using an endoscope according to claim 3, wherein the circular end portion has a plurality of lateral notches extending in the circumferential direction between the inner flange and  
15 the cylindrical wall, and each pair of vertical notches extend toward the cylindrical wall from both ends of each lateral notch.

7. The mucosa excising device using an endoscope according to claim 1, wherein the engagement piece can  
20 swivel to a side where the circular end portion is positioned with respect to the corresponding portion, and it holds the snare wire between its outer surface and one surface of the corresponding portion when  
25 caused to swivel.

8. The mucosa excising device using an endoscope according to claim 4, wherein the engagement piece is

elastically deformed and caused to swivel, and the snare wire is pressed against the corresponding portion by an elastic return force of the engagement piece.

5           9. The mucosa excising device using an endoscope according to claim 4, wherein the corresponding portion has a flange provided so as to inwardly protrude from the cylindrical wall, the engagement piece has separation portions separated from each other by a notch portion formed in the inner flange, and the  
10       snare wire is supported between the flange and the separation portions.

          10. The mucosa excising device using an endoscope according to claim 1, wherein the engagement pieces and the corresponding portions are alternately arranged in  
15       the circumferential direction of the circular end portion.

          11. The mucosa excising device using an endoscope according to claim 1, further comprising: a snare sheath into which the snare wire is inserted; and  
20       a flexible tube which has an opening on an end side, the opening communicating with the inner side of the cap, which is arranged outside the insertion portion of the endoscope when the cap is attached to the endoscope, and is used to insert the snare sheath in  
25       which the snare where is inserted therethrough, wherein fixing means for fixing the snare sheath so as to be capable of being released is provided in the vicinity

of a base end portion of the flexible tube.

12. A mucosa excising device using an endoscope comprising: a substantially cylindrical cap; an attachment portion which attaches the cap to an end  
5 portion of an endoscope; and a flexible tube whose end opening communicates with the inner side of the cap, which is arranged outside an insertion portion of the endoscope when the cap is attached to the endoscope and used to insert a snare sheath of a high-frequency snare  
10 therein, an end portion of a snare wire of the high-frequency snare inserted in the cap through the flexible tube being expanded and arranged in the cap, wherein fixing means for fixing the snare sheath of the high-frequency snare so as to be capable of being  
15 released is provided in the vicinity of the base end portion of the flexible tube.